

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	"5762771".pn.	US-PGPUB; USPAT	ADJ	ON	2007/01/10 15:08
S3	126	S2 and "protective cover"	US-PGPUB; USPAT	ADJ	ON	2007/01/16 08:11
S4	26	S2 AND protect\$ cover\$ near4 inner	US-PGPUB; USPAT	ADJ	ON	2007/01/10 15:49
S5	4	S2 AND protect\$ cover\$ near4 intermedia\$	US-PGPUB; USPAT	ADJ	ON	2007/01/11 12:59
S6	2927	(204/424-429, 205/783.5-785, 73/23.31-23.32).ccls.	US-PGPUB; USPAT	ADJ	ON	2007/01/11 13:00
S7	1	S6 AND protectiv\$ cover near8 intermediate AND hole near8 area	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/01/11 13:02
S8	4	S6 AND protectiv\$ cover near8 intermediate AND area	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/01/11 13:17
S9	282	S6 AND gas sensor AND protective AND area	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/01/11 13:30
S10	122	S6 AND gas sensor AND cover AND intermediate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/01/11 13:30
S11	11	S6 AND gas sensor AND cover AND intermediate near4 cover	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/01/11 13:52
S12	3	2002-303425	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2007/01/11 13:52
S13	6	("4272349"   "4466880"   "4597850"   "4683049"   "5238552"   "5707504").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/11 14:12
S14	0	"10807985"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/11 14:12

## EAST Search History

S15	1	"10/807985"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/11 14:12
S16	0	("2005/0016849").URPN.	USPAT	ADJ	ON	2007/01/11 14:35
S17	7	"6214186"	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/11 14:43
S18	1	"6214186".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/11 14:36
S19	12	"5762771"	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/11 14:43
S20	31	("3835012"   "4096050"   "4111778"   "4141813"   "4339318"   "4466880"   "4507192"   "4591422"   "4591423"   "4597850"   "4668477"   "4897174"   "4905652"   "4927517"   "4929331"   "5177464"   "5228975"   "5238552"   "5250169"   "5265417"   "5324415"   "5444974"   "5473304"   "5476001"   "5505073"   "5505837"   "5689059"   "5707504"   "5711863"   "5762771").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/11 14:47
S21	2928	(204/424-429, 205/783.5-785, 73/23.31-23.32).ccs.	US-PGPUB; USPAT	ADJ	ON	2007/01/22 07:59
S22	1544	S21 AND cover\$	US-PGPUB; USPAT	ADJ	ON	2007/01/16 08:12
S23	95	S22 AND hole near5 area	US-PGPUB; USPAT	ADJ	ON	2007/01/16 11:26
S24	2	S22 AND inner near inlet hole	US-PGPUB; USPAT	ADJ	ON	2007/01/16 11:27
S25	1	"6348141".pn.	US-PGPUB; USPAT	ADJ	ON	2007/01/16 11:30
S26	8	("4683049"   "6214208"   "6279376"   "6327891"   "6346179"   "6688157"   "6739177"   "6780298").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/16 15:03
S27	6	("4683049"   "6214208"   "6279376"   "6327891"   "6346179"   "6688157"   "6739177"   "6780298").PN. AND ratio	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/16 15:05

## EAST Search History

S28	10	204/428.ccls. AND area near4 ratio	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/16 15:09
S29	20	204/428.ccls. AND area near5 hole	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/16 15:10
S30	324	204/428.ccls.	US-PGPUB; USPAT	ADJ	ON	2007/01/17 15:14
S31	16	S30 and inner near5 area\$	US-PGPUB; USPAT	ADJ	ON	2007/01/17 09:10
S32	1	"6348141".pn.	US-PGPUB; USPAT	ADJ	ON	2007/01/17 15:02
S33	0	S32 and perpendicular	US-PGPUB; USPAT	ADJ	ON	2007/01/17 09:11
S34	0	S32 and location	US-PGPUB; USPAT	ADJ	ON	2007/01/17 09:11
S35	0	S32 and orientation	US-PGPUB; USPAT	ADJ	ON	2007/01/17 09:25
S36	1	"7007543".pn.	US-PGPUB; USPAT	ADJ	ON	2007/01/17 09:29
S37	13	S30 and area near5 ratio	US-PGPUB; USPAT	ADJ	ON	2007/01/17 09:40
S38	8	S30 and inlet near5 area	US-PGPUB; USPAT	ADJ	ON	2007/01/17 09:46
S39	0	S30 and rea	US-PGPUB; USPAT	ADJ	ON	2007/01/17 09:46
S40	178	S30 and area	US-PGPUB; USPAT	ADJ	ON	2007/01/17 09:46
S41	20	S30 and hole near5 area	US-PGPUB; USPAT	ADJ	ON	2007/01/17 09:56
S42	1	"6997038".pn.	US-PGPUB; USPAT	ADJ	ON	2007/01/17 09:56
S43	3	("5238552"   "5880353"   "6214186").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/17 09:57
S44	4	("4756885"   "5762771"   "5795454"   "5830339").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/17 10:08
S45	7	("4040930"   "4116797"   "4569748"   "4683049"   "4915815"   "5073247"   "5238552").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/17 10:46
S46	21	S30 and opening near5 area	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/17 11:02

## EAST Search History

S47	0	S30 and perpendicular same orientation	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/17 11:02
S48	4	S30 and perpendicular AND orientation	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/17 11:04
S49	10	S30 and perpendicular same (exhaust or tube)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/17 11:06
S50	35	S30 and perpendicular	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/17 13:15
S51	1	"6346179".pn.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/17 13:15
S52	1	"20030121782"	US-PGPUB; USPAT	ADJ	ON	2007/01/17 15:04
S53	9	S30 and (total near4 (area or diameter) same (opening or hole or aperture))	US-PGPUB; USPAT	ADJ	ON	2007/01/17 15:17
S54	53053	"204".clas.	US-PGPUB; USPAT	ADJ	ON	2007/01/17 15:17
S55	330	S54 and (total near4 (area or diameter) same (opening or hole or aperture))	US-PGPUB; USPAT	ADJ	ON	2007/01/17 15:17
S56	88	S54 and (total near4 (area or diameter) same (opening or hole or aperture)) and sensor	US-PGPUB; USPAT	ADJ	ON	2007/01/17 15:31
S57	2928	(204/424-429, 205/783.5-785, 73/23.31-23.32).ccls.	US-PGPUB; USPAT	ADJ	ON	2007/01/17 15:32
S58	0	S57 and total near4 area same impede.	US-PGPUB; USPAT	ADJ	ON	2007/01/17 15:32
S59	19	S57 and total near4 area same (gas inlet or aperture or hole)	US-PGPUB; USPAT	ADJ	ON	2007/01/17 15:39
S60	1	"09769393"	US-PGPUB; USPAT	ADJ	ON	2007/01/18 10:49
S61	0	"10807985"	US-PGPUB; USPAT	ADJ	ON	2007/01/18 10:49
S62	1	"10/807985"	US-PGPUB; USPAT	ADJ	ON	2007/01/18 10:49
S63	6	("4272349"   "4466880"   "4597850"   "4683049"   "5238552"   "5707504").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/18 11:38

## EAST Search History

S64	11	("3891529"   "4038034"   "4065372"   "4111778"   "4283261"   "4401967"   "4507192"   "4597850"   "4624770"   "4683049"   "4689136").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/18 13:30
S65	67771	"204".clas.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/18 13:30
S66	15450	S65 and cover	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/18 13:31
S67	8956	S66 and water	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/18 13:31
S68	405	S67 and gas sensor	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/18 14:44
S96	697868	sensor sensors	US-PGPUB; USPAT	OR	ON	2007/01/22 13:16
S97	1180445	angled inclined perpendicular\$	US-PGPUB; USPAT	OR	ON	2007/01/22 13:17
S98	7114	S96 near3 S97	US-PGPUB; USPAT	OR	ON	2007/01/22 13:17
S99	2112999	flow	US-PGPUB; USPAT	OR	ON	2007/01/22 13:18
S100	357	S98 with S99	US-PGPUB; USPAT	OR	ON	2007/01/22 13:19
S101	13877	catalytic adj converter	US-PGPUB; USPAT	OR	ON	2007/01/22 13:19
S102	1	S100 and S101	US-PGPUB; USPAT	OR	ON	2007/01/22 13:38
S103	543934	angled inclined	US-PGPUB; USPAT	OR	OFF	2007/01/22 13:39
S104	1851	S96 near3 S103	US-PGPUB; USPAT	OR	OFF	2007/01/22 14:13
S105	64	S104 with S99	US-PGPUB; USPAT	OR	OFF	2007/01/22 13:40
S106	5	S105 and exhaust	US-PGPUB; USPAT	OR	OFF	2007/01/22 13:41
S107	5	S105 and exhaust	US-PGPUB; USPAT	OR	ON	2007/01/22 13:41
S108	697868	sensor sensors	US-PGPUB; USPAT	OR	OFF	2007/01/22 14:16
S109	29012	S108 near4 gas	US-PGPUB; USPAT	OR	OFF	2007/01/22 14:17

## EAST Search History

S11 0	1518129	inclined angle\$ incline	US-PGPUB; USPAT	OR	OFF	2007/01/22 14:18
S11 1	1081	S109 same S110	US-PGPUB; USPAT	OR	OFF	2007/01/22 14:18
S11 2	240995	exhaust	US-PGPUB; USPAT	OR	ON	2007/01/22 14:19
S11 3	714	S111 and S112	US-PGPUB; USPAT	OR	ON	2007/01/22 14:20
S11 4	462253	installation	US-PGPUB; USPAT	OR	ON	2007/01/22 14:20
S11 5	6	S111 same installation	US-PGPUB; USPAT	OR	ON	2007/01/22 14:27
S11 6	46	S111 same install\$	US-PGPUB; USPAT	OR	ON	2007/01/22 14:47
S11 7	9704	gas adj sensor	US-PGPUB; USPAT	OR	ON	2007/01/22 14:48
S11 8	390026	incline\$	US-PGPUB; USPAT	OR	ON	2007/01/22 14:48
S11 9	20	S117 with S118	US-PGPUB; USPAT	OR	ON	2007/01/22 15:00
S12 1	1426162	angle\$ slant\$	US-PGPUB; USPAT	OR	ON	2007/01/22 15:01
S12 3	697868	sensor	US-PGPUB; USPAT	OR	ON	2007/01/22 15:15
S12 4	1322141	oxygen gas NOx	US-PGPUB; USPAT	OR	ON	2007/01/22 15:16
S12 5	34888	S124 near3 S123	US-PGPUB; USPAT	OR	ON	2007/01/22 15:16
S12 6	462253	installation	US-PGPUB; USPAT	OR	ON	2007/01/22 15:17
S12 7	981429	install\$	US-PGPUB; USPAT	OR	ON	2007/01/22 15:17
S12 8	1520527	angle\$ incline\$	US-PGPUB; USPAT	OR	ON	2007/01/22 15:17
S12 9	1406	S127 with S125	US-PGPUB; USPAT	OR	ON	2007/01/22 15:18
S13 0	32	S129 with S128	US-PGPUB; USPAT	OR	ON	2007/01/22 15:26
S13 1	697868	sensor	US-PGPUB; USPAT	OR	ON	2007/01/22 15:26
S13 2	2251015	perpendicular\$ angle\$ orient\$ incline\$	US-PGPUB; USPAT	OR	ON	2007/01/22 15:27
S13 3	95423	S132 with S131	US-PGPUB; USPAT	OR	ON	2007/01/22 15:27

## EAST Search History

S13 4	1459	S133 with exhaust	US-PGPUB; USPAT	OR	ON	2007/01/22 15:28
S13 5	296	flow adj direction with S133	US-PGPUB; USPAT	OR	ON	2007/01/22 15:30
S13 6	58	S135 and combustion	US-PGPUB; USPAT	OR	ON	2007/01/22 15:41
S13 7	9704	gas adj sensor	US-PGPUB; USPAT	OR	ON	2007/01/22 15:41
S13 8	73849	protect\$ near3 cover	US-PGPUB; USPAT	OR	ON	2007/01/22 15:42
S13 9	1352416	inner	US-PGPUB; USPAT	OR	ON	2007/01/22 15:42
S14 0	141	S137 same S138	US-PGPUB; USPAT	OR	ON	2007/01/22 15:43
S14 1	1	S140 same more near4 holes	US-PGPUB; USPAT	OR	ON	2007/01/22 15:45
S14 2	0	EP0971836	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/01/23 07:09
S14 3	1	"0971836"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/01/23 07:10
S14 4	3	"0974836"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/01/23 07:10
S14 5	9	("20030188967"   "20040050695"   "4019974"   "4159234"   "4502939"   "4535316"   "4818364"   "4842713"   "6214186").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/23 07:11
S14 6	80377	response time	US-PGPUB; USPAT	ADJ	ON	2007/01/23 07:22
S14 7	1353142	inner	US-PGPUB; USPAT	ADJ	ON	2007/01/23 07:22
S14 8	0	5 and (S146 near4 S144)	US-PGPUB; USPAT	ADJ	ON	2007/01/23 07:22
S14 9	0	5 and (S146 with S144)	US-PGPUB; USPAT	ADJ	ON	2007/01/23 07:23
S15 0	0	5 and (S146 same S144)	US-PGPUB; USPAT	ADJ	ON	2007/01/23 07:23
S15 1	466	5 and S146	US-PGPUB; USPAT	ADJ	ON	2007/01/23 07:23
S15 2	6057	inlet hole	US-PGPUB; USPAT	ADJ	ON	2007/01/23 07:23
S15 3	7	S151 and S152	US-PGPUB; USPAT	ADJ	ON	2007/01/23 07:28

## EAST Search History

S15 4	466	5 and S146	US-PGPUB; USPAT	ADJ	ON	2007/01/23 07:29
S15 5	696	S146 same S147	US-PGPUB; USPAT	ADJ	ON	2007/01/23 07:29
S15 6	28	S155 and 5	US-PGPUB; USPAT	ADJ	ON	2007/01/23 07:45
S15 7	6	("6279376", "6348141", "6948353", "6071476", "5095878").pn. or "20030121782"	US-PGPUB; USPAT	OR	ON	2007/01/23 08:06
S15 9	6	S157 and structure	US-PGPUB; USPAT	ADJ	ON	2007/01/23 07:50